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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: "Improvements to Roads and Drains at Allalasandra and Construction of CC Road at Sanitary Core in Ward No:04"

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	RCC(M20)	Compressive Strength(7days and 28days)	5 set /51-100 cum	71.4	10	10
9	Cement Concrete Pavemet (M20)	Compressive Strength(7days and 28days)	15 set /550-600 cum	553.67	30	30

ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಧಿಕಾರಿಗಳು
ಯಲಹಂಕ ಉಪನಗರ ಬೆಂಗಳೂರು

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2021-03-27-54
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Allalasandra and Construction of CC Road at Sanitary Core in Ward No:04"
Agency	:	Sri.Vijaya Kumar R, No.201/16, 6th Cross, Lakshminagara, Basaveshwaranagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/206/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-02-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date: 05/02/2021

Date of test : 05/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	29/01/2021	05/02/2021	150.93 X 151.98 X 149.79	22939	8.543	574.1	25.0	25.4
2	Cement Concrete Pavement	M30	29/01/2021	05/02/2021	149.11 X 150.14 X 150.64	22388	8.902	596.5	26.6	
3	Cement Concrete Pavement	M30	29/01/2021	05/02/2021	150.04 X 149.22 X 150.37	22388	8.462	549.6	24.6	

* The results obtained are satisfactory as per standard requirements.

Note:
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Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/02/2021

Lab ID	:	CP-2021-03-27-54
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Allalasandra and Construction of CC Road at Sanitary Core in Ward No:04"
Agency	:	Sri.Vijaya Kumar R, No.201/16, 6th Cross, Lakshminagara, Basaveshwaranagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/206/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-02-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	29/01/2021	26/02/2021	151.03 X 151.23 X 151.89	22841	8.291	769.1	33.7	33.3
2	Cement Concrete Pavement	M30	29/01/2021	26/02/2021	150.04 X 151.53 X 149.54	22736	8.794	737.6	32.4	
3	Cement Concrete Pavement	M30	29/01/2021	26/02/2021	150.91 X 149.47 X 151.52	22555	8.100	763.3	33.8	

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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/02/2021

Lab ID	:	CP-2021-03-27-54
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Allalasandra and Construction of CC Road at Sanitary Core in Ward No:04"
Agency	:	Sri.Vijaya Kumar R, No.201/16, 6th Cross, Lakshminagara, Basaveshwaranagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/206/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-02-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	30/01/2021	27/02/2021	150.59 X 149.40 X 151.25	22499	8.291	747.1	33.2	33.0
2	Cement Concrete Pavement	M30	30/01/2021	27/02/2021	149.51 X 151.21 X 149.92	22607	8.794	737.1	32.6	
3	Cement Concrete Pavement	M30	30/01/2021	27/02/2021	150.31 X 150.23 X 151.95	22582	8.100	752.2	33.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 06/02/2021

Lab ID	:	CP-2021-03-27-54
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Allalasandra and Construction of CC Road at Sanitary Core in Ward No:04"
Agency	:	Sri.Vijaya Kumar R, No.201/16, 6th Cross, Lakshminagara, Basaveshwaranagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/206/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-02-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	30/01/2021	06/02/2021	150.55 X 151.31 X 149.68	22780	8.543	577.2	25.3	25.4
2	Cement Concrete Pavement	M30	30/01/2021	06/02/2021	150.42 X 150.91 X 149.65	22699	8.902	594.9	26.2	
3	Cement Concrete Pavement	M30	30/01/2021	06/02/2021	151.08 X 149.88 X 151.96	22645	8.462	559.1	24.7	

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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-03-27-54** **Date: 08/02/2021**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Allalasandra and Construction of CC Road at Sanitary Core in Ward No:04"
Agency	:	Sri.Vijaya Kumar R, No.201/16, 6th Cross, Lakshminagara, Basaveshwaranagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/206/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-02-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	01/02/2021	08/02/2021	149.86 X 151.53 X 149.98	22707	8.543	570.2	25.1	25.3
2	Cement Concrete Pavement	M30	01/02/2021	08/02/2021	149.40 X 149.63 X 151.32	22355	8.902	590.5	26.4	
3	Cement Concrete Pavement	M30	01/02/2021	08/02/2021	151.58 X 151.80 X 151.51	23009	8.462	560.0	24.3	

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 08/02/2021

Lab ID	:	CP-2021-03-27-54
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Allalasandra and Construction of CC Road at Sanitary Core in Ward No:04"
Agency	:	Sri.Vijaya Kumar R, No.201/16, 6th Cross, Lakshminagara, Basaveshwaranagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/206/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-02-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/02/2021

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	01/02/2021	08/02/2021	151.82 X 151.56 X 149.56	23010	8.543	587.7	25.5	25.6
2	Cement Concrete Pavement	M30	01/02/2021	08/02/2021	151.09 X 150.03 X 149.45	22668	8.902	603.7	26.6	
3	Cement Concrete Pavement	M30	01/02/2021	08/02/2021	149.23 X 151.22 X 150.48	22566	8.462	554.4	24.6	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 02/03/2021

Lab ID	:	CP-2021-03-27-54
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Allalasandra and Construction of CC Road at Sanitary Core in Ward No:04"
Agency	:	Sri.Vijaya Kumar R, No.201/16, 6th Cross, Lakshminagara, Basaveshwaranagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W O/206/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-02-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete CL5
Date of test	:	02/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/02/2021	02/03/2021	150.22 X 149.30 X 150.67	22428	8.291	747.1	33.3	33.1
2	Cement Concrete Pavement	M30	02/02/2021	02/03/2021	150.27 X 151.22 X 149.83	22724	8.794	733.4	32.3	
3	Cement Concrete Pavement	M30	02/02/2021	02/03/2021	150.51 X 149.71 X 149.99	22533	8.100	757.0	33.6	

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Authorized Signatory
Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2021-03-27-54 **Date: 25/02/2021**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Allalasandra and Construction of CC Road at Sanitary Core in Ward No:04"
Agency	:	Sri.Vijaya Kumar R, No.201/16, 6th Cross, Lakshminagara, Basaveshwaranagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/206/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-01-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	28/01/2021	25/02/2021	151.11 X 149.33 X 149.81	22565	8.291	753.7	33.4	33.2
2	Cement Concrete Pavement	M30	28/01/2021	25/02/2021	150.46 X 149.29 X 149.35	22462	8.794	731.7	32.6	
3	Cement Concrete Pavement	M30	28/01/2021	25/02/2021	149.22 X 150.80 X 149.03	22503	8.100	758.1	33.7	

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2021-03-27-54 **Date: 26/02/2021**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Allalasandra and Construction of CC Road at Sanitary Core in Ward No:04"
Agency	:	Sri. Vijaya Kumar R, No.201/16, 6th Cross, Lakshminagara, Basaveshwaranagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/206/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-02-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	29/01/2021	26/02/2021	151.61 X 150.25 X 149.56	22779	8.291	765.6	33.6	33.2
2	Cement Concrete Pavement	M30	29/01/2021	26/02/2021	149.27 X 150.51 X 151.01	22466	8.794	731.3	32.6	
3	Cement Concrete Pavement	M30	29/01/2021	26/02/2021	149.55 X 150.15 X 150.38	22454	8.100	747.5	33.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2021-03-27-54 **Date: 30/01/2021**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Allalasandra and Construction of CC Road at Sanitary Core in Ward No:04"
Agency	:	Sri.Vijaya Kumar R, No.201/16, 6th Cross, Lakshminagara, Basaveshwaranagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/206/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-01-21
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	23/01/2021	30/01/2021	149.63 X 149.74 X 149.69	22406	8.173	417.4	18.6	18.7
2	Drain Side Wall Concrete	M20	23/01/2021	30/01/2021	151.24 X 151.30 X 149.14	22883	8.856	427.2	18.7	
3	Drain Side Wall Concrete	M20	23/01/2021	30/01/2021	149.81 X 151.50 X 151.66	22696	8.112	428.3	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2021-03-27-54 **Date: 30/01/2021**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Allalasandra and Construction of CC Road at Sanitary Core in Ward No:04"
Agency	:	Sri.Vijaya Kumar R, No.201/16, 6th Cross, Lakshminagara, Basaveshwaranagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/206/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-01-21
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	23/01/2021	30/01/2021	150.54 X 149.06 X 150.59	22439	8.173	412.4	18.4	18.2
2	Drain Side Wall Concrete	M20	23/01/2021	30/01/2021	150.87 X 151.26 X 149.69	22820	8.856	410.8	18.0	
3	Drain Side Wall Concrete	M20	23/01/2021	30/01/2021	151.64 X 149.79 X 151.33	22714	8.112	410.9	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-03-27-54** **Date: 20/02/2021**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Allalasandra and Construction of CC Road at Sanitary Core in Ward No:04"
Agency	:	Sri.Vijaya Kumar R, No.201/16, 6th Cross, Lakshminagara, Basaveshwaranagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/206/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-01-21
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	23/01/2021	20/02/2021	150.60 X 150.30 X 151.91	22636	8.489	529.7	23.4	23.1
2	Drain Side Wall Concrete	M20	23/01/2021	20/02/2021	150.23 X 150.22 X 149.99	22567	8.983	515.4	22.8	
3	Drain Side Wall Concrete	M20	23/01/2021	20/02/2021	151.73 X 150.76 X 149.15	22874	8.907	526.3	23.0	

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2021-03-27-54 **Date: 15-01-21**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Roads and Drains at Allalasandra and Construction of CC Road at Sanitary Core in Ward No:04"

Agency : Sri.Vijaya Kumar R, No.201/16, 6th Cross, Lakshminagara, Basaveshwaranagara, Bangalore-560079

Customer's Reference : BBMP/EE/YNK.D/EPMT-5/W.O/206/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-01-21

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 12-01-21

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2021-03-27-54** **Date: 13-01-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Allalasandra and Construction of CC Road at Sanitary Core in Ward No:04"
Agency	:	Sri.Vijaya Kumar R, No.201/16, 6th Cross. Lakshminagara, Basaveshwaranagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/206/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-01-21
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test	:	12-01-21

SLNo	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2021-03-27-54** **Date: 25-01-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Allalasandra and Construction of CC Road at Sanitary Core in Ward No:04"
Agency	:	Sri.Vijaya Kumar R, No.201/16, 6th Cross, Lakshminagara, Basaveshwaranagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/206/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-01-21
Sample Type /Size	:	Precast Cover Slab (250mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	21/01/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	250.48	3.116	31570	230.9	7.3	6.8	8.5
2	Cover Slab-2	200.49	250.52	3.122	31564	232.3	7.4	6.8	8.6
3	Cover Slab-3	200.50	250.51	3.118	31567	231.5	7.3	6.8	8.5

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-03-27-54** **Date: 27/01/2021**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Allalasandra and Construction of CC Road at Sanitary Core in Ward No:04"
Agency	:	Sri.Vijaya Kumar R, No.201/16, 6th Cross, Laksminagara, Basaveshwaranagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/206/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-01-21
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	20/01/2021	27/01/2021	149.71 X 150.42 X 150.83	22519	8.173	427.3	19.0	18.8
2	Drain Bottom Slab Concrete	M20	20/01/2021	27/01/2021	151.71 X 149.59 X 149.44	22694	8.856	418.1	18.4	
3	Drain Bottom Slab Concrete	M20	20/01/2021	27/01/2021	151.62 X 150.33 X 149.07	22793	8.112	431.7	18.9	

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 15-01-21

Lab ID	:	CP-2021-03-27-54
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Allalasandra and Construction of CC Road at Sanitary Core in Ward No.04"
Agency	:	Sri.Vijaya Kumar R, No.201/16, 6th Cross, Lakshminagara, Basaveshwaranagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/266/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-01-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	13-01-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	–
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-03-27-54** **Date: 10-02-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Allalasandra and Construction of CC Road at Sanitary Core in Ward No:04"
Agency	:	Sri.Vijaya Kumar R, No.201/16, 6th Cross, Lakshminagara, Basaveshwaranagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W O/206/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-01-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	13-01-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

• The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

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FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-03-27-54** **Date: 15-01-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Allalasandra and Construction of CC Road at Sanitary Core in Ward No:04"
Agency	:	Sri.Vijaya Kumar R, No.201/16, 6th Cross, Lakshminagara, Basaveshwaranagara, Bangalore-560079
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/206/2020-21
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	12-01-21
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	12-01-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-03-27-54** **Date: 15-01-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.5	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.52	–
5	Bulk Density(Compacted) (Kg/l)	1.56	–
6	Water Absorption(%)	0.21	–
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signature
Quality Manager

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